

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P520680

Luminaire Tested: **8WSLA-150-L835-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-150-L835-UPL8-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

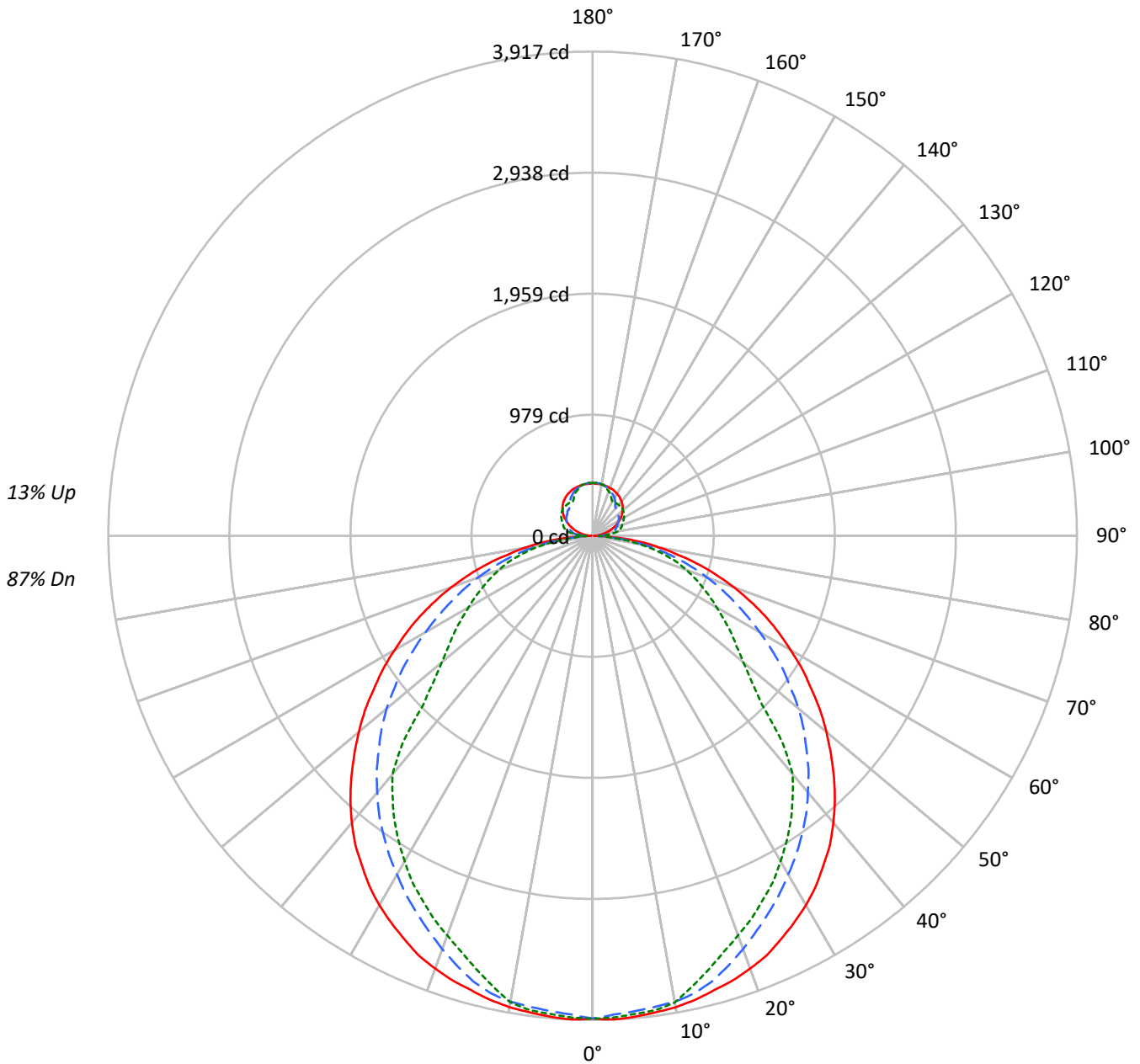
Lumens per Lamp: N/A
Luminaire Lumens: 12155.9 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10511	10511	10511
5°	10551	10430	10490
10°	10581	10458	10473
15°	10600	10396	10115
20°	10671	10188	9850
25°	10696	9996	9662
30°	10723	9832	9448
35°	10690	9693	9194
40°	10641	9516	8845
45°	10502	9304	7379
50°	10329	9105	6659
55°	10125	8807	6407
60°	9951	8409	6231
65°	9805	8052	6227
70°	9552	7738	6323
75°	9115	7362	6369
80°	8536	6619	5923
85°	7808	4684	3992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.8	3.0
10°-20°	1051.3	8.6
20°-30°	1570.8	12.9
30°-40°	1875.1	15.4
40°-50°	1875.3	15.4
50°-60°	1623.0	13.4
60°-70°	1245.7	10.2
70°-80°	763.3	6.3
80°-90°	214.9	1.8
90°-100°	121.4	1.0
100°-110°	192.8	1.6
110°-120°	225.4	1.9
120°-130°	243.3	2.0
130°-140°	239.7	2.0
140°-150°	212.1	1.7
150°-160°	174.6	1.4
160°-170°	116.8	1.0
170°-180°	40.7	0.3
0°-30°	2991.9	24.6
0°-40°	4867.0	40.0
0°-60°	8365.3	68.8
0°-90°	10589.2	87.1
90°-120°	539.6	4.4
90°-150°	1234.7	10.2
90°-180°	1567.0	12.9
0°-180°	12155.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3906	3906	3906	3906	3906	
5°	3906	3895	3861	3889	3884	372
15°	3805	3799	3732	3664	3631	1076
25°	3602	3558	3366	3277	3254	1662
35°	3254	3170	2951	2844	2799	2038
45°	2760	2681	2445	2226	1939	2128
55°	2158	2108	1877	1501	1366	1935
65°	1540	1484	1264	1017	978	1521
75°	877	832	708	613	613	925
85°	253	208	152	129	129	264
90°	11	39	62	79	84	18
95°	45	96	129	135	135	44
105°	129	135	191	225	236	136
115°	214	180	225	258	275	209
125°	287	230	258	298	309	255
135°	343	309	287	315	332	264
145°	382	365	320	315	326	238
155°	405	399	377	360	354	187
165°	416	422	410	410	410	118
175°	422	427	427	433	433	40
180°	427	427	427	427	427	



TEST NUMBER: P520680

CATALOG NUMBER: 8WSLA-150-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3906.0	3906.0	3906.0	3906.0	3906.0
2.5°	3917.2	3906.0	3877.9	3906.0	3900.4
5°	3906.0	3894.8	3861.0	3889.1	3883.5
7.5°	3889.1	3877.9	3844.2	3877.9	3872.3
10°	3872.3	3861.0	3827.3	3849.8	3832.9
12.5°	3844.2	3832.9	3793.6	3765.5	3731.8
15°	3804.8	3799.2	3731.8	3664.3	3630.6
17.5°	3771.1	3754.3	3647.5	3568.8	3529.5
20°	3726.2	3698.1	3557.6	3467.6	3439.5
22.5°	3675.6	3630.6	3462.0	3377.7	3355.2
25°	3602.5	3557.6	3366.5	3276.6	3254.1
27.5°	3529.5	3473.3	3270.9	3181.0	3158.5
30°	3450.8	3372.1	3164.1	3079.8	3040.5
32.5°	3360.9	3282.2	3063.0	2967.4	2922.5
35°	3254.1	3169.8	2950.6	2843.8	2798.8
37.5°	3152.9	3063.0	2838.2	2720.2	2658.3
40°	3029.3	2939.3	2708.9	2579.7	2517.8
42.5°	2900.0	2815.7	2585.3	2427.9	2276.2
45°	2759.5	2680.8	2444.8	2225.6	1939.0
47.5°	2613.4	2545.9	2315.5	2017.6	1742.2
50°	2467.2	2399.8	2175.0	1820.9	1590.5
52.5°	2321.1	2264.9	2017.6	1657.9	1466.9
55°	2158.1	2107.6	1877.1	1500.6	1365.7
57.5°	2012.0	1961.4	1714.1	1371.3	1258.9
60°	1849.0	1804.1	1562.4	1242.1	1157.8
62.5°	1697.3	1646.7	1410.7	1129.7	1067.8
65°	1539.9	1483.7	1264.5	1017.2	977.9
67.5°	1376.9	1320.7	1124.0	916.1	893.6
70°	1214.0	1169.0	983.5	814.9	803.7
72.5°	1045.3	994.8	843.0	719.4	719.4
75°	876.7	831.8	708.1	612.6	612.6
77.5°	702.5	680.0	567.6	500.2	505.8
80°	550.8	522.7	427.1	382.2	382.2
82.5°	404.7	370.9	286.6	252.9	264.1
85°	252.9	207.9	151.7	129.3	129.3
87.5°	78.7	61.8	45.0	50.6	50.6
90°	11.2	39.3	61.8	78.7	84.3
92.5°	28.1	73.1	89.9	106.8	112.4
95°	45.0	95.5	129.3	134.9	134.9
97.5°	61.8	106.8	157.4	179.8	179.8
100°	84.3	112.4	168.6	202.3	207.9
102.5°	106.8	123.6	179.8	213.6	224.8
105°	129.3	134.9	191.1	224.8	236.0



TEST NUMBER: P520680

CATALOG NUMBER: 8WSLA-150-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	191.1	168.6	213.6	252.9	264.1
115°	213.6	179.8	224.8	258.5	275.4
117.5°	230.4	196.7	236.0	269.8	281.0
120°	247.3	207.9	241.7	281.0	292.2
122.5°	269.8	219.2	252.9	286.6	303.5
125°	286.6	230.4	258.5	297.9	309.1
127.5°	303.5	252.9	264.1	303.5	314.7
130°	314.7	275.4	269.8	309.1	320.3
132.5°	331.6	292.2	275.4	314.7	326.0
135°	342.8	309.1	286.6	314.7	331.6
137.5°	354.1	326.0	286.6	314.7	326.0
140°	365.3	342.8	292.2	314.7	326.0
142.5°	370.9	354.1	297.9	314.7	326.0
145°	382.2	365.3	320.3	314.7	326.0
147.5°	387.8	376.6	337.2	314.7	326.0
150°	393.4	387.8	354.1	320.3	320.3
152.5°	399.0	393.4	365.3	342.8	331.6
155°	404.7	399.0	376.6	359.7	354.1
157.5°	410.3	410.3	387.8	376.6	370.9
160°	410.3	415.9	399.0	387.8	382.2
162.5°	415.9	421.5	404.7	399.0	393.4
165°	415.9	421.5	410.3	410.3	410.3
167.5°	421.5	427.1	421.5	415.9	415.9
170°	421.5	427.1	421.5	421.5	421.5
172.5°	421.5	427.1	427.1	427.1	427.1
175°	421.5	427.1	427.1	432.8	432.8
177.5°	421.5	427.1	427.1	427.1	427.1
180°	427.1	427.1	427.1	427.1	427.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	151.7	146.1	196.7	236.0	247.3
110°	168.6	157.4	207.9	241.7	252.9



(END OF REPORT)